#495

TABLE I (Revised)

SUMMARY OF BORROW REQUIREMENTS, CROSS DELTA ROUTE (Revised)

1. Cross Delta Lateral	SECTION	MILES	BORROW CU. YD.
	MP 320 to Tununuk Jct. (Including Tununuk Jct.) MP 320 - MP 372.4	52.4	2,730,000
		Sub-Total	2,730,000
2. Richards Island Supply Line	SECTION	MILES	BORROW CU. YD.
	Niglintgak To Taglu (Excluding Taglu)	10.75	26,000
	Taglu to Tununuk Jct. (Excluding Tununuk Jct.)	19.3	28,000
		Sub-Total	54,000
3. Parsons Lake Lateral	SECTION	MILES	BORROW CU. YD.
	Tununuk Jct. to Parsons Lake Lateral Jct. (Excluding Tununuk Jct.) MP 19.3 - MP 55	35.7	1,532,000
	Parsons Lake to Parsons Lake Lateral Jct. MP 00 - MP 12.5 (MP55)	12.5	26,000
		Sub-Total	1,558,000
		TOTAL	4,342,000

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MACKENZIE VALLEY PIPELINE INQUIRY
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TABLE 2 (Revised)

BORROW REQUIREMENTS, FROM YA-YA AREA

	DESCRIPTION		BORROW CU. YD.
1.	MP 354.3	[Wharf & Stockpile, work pads, road]	258,000
2.	CD-08	[Compressor station pad, road]	912,000
3.	MP 367	[Work pads, road]	340,000
4.	RMP 1031	[Wharf & Stockpile, Airstrip]	290,000
		TOTAL:	1,800,000

TABLE 3

BORROW SOURCES NEAR TUNUNUK JUNCTION

BORROW DEPOSIT	DISTANCE FROM TUNUNUK JUNCTION (Miles)	MATERIAL	LANDFORM	ESTIMATED REC. DEPTH	ESTIMATED AVAILABLE VOL. 10^3cu.yd.
107C-B1	12.0	Sand w/some gravel	terrace and bar	10'	10,000
(222)	(12.0)	(sand w/some gravel)	(terrace and bar)	(10')	(10,000)
107C-B2	3.0	Sand and gravel	Esker-Kame complex	10'	400
(226)	(3.0)	(sand and gravel)	(Esker-Kame complex)	(10')	(400)
107C-B3	3.5 to 7.0	Gravel and sand	Esker-Kame complex	10' to 20'	9,000
(223)	(7.0)	(gravel w/some sand)	(Esker-Kame complex)	(20')	(5,500)
(224)	(5.0)	(gravel w/some sand)	(Esker)	(20')	(2,500)
(225)	(3.5)	(sand w/some gravel)	(Esker)	(10' to 20')	(1,000)
107C-B4	2.0 to 12.0	Gravel and sand	Kames and Crevasse fillings	<5' to 30'	1,500+
(227)	(2.0 to 7.0)	(sand w/some gravel)	(Kame field)	(?)	(400)
(221A)	(6.0 to 9.0)	(sand w/some silt)	(Kames)	(?)	(?)
(220)	(9.0)	(sand w/some gravel)	(Eskers or Crevasse fillings)	(5')	(100)
(219)	(12.0)	(gravel and sand)	(Crevasse filling?)	(10' to 30')	(1,000+)
200A	13.5	Sand	beach and delta	?	?
201A	10.0	Sand	delta plain and beach	?	?
202A	16.0	Sand	beach and delta	?	?
203A	15.0	Sand	delta and beach	?	?
204	9.0	Sand w/some gravel	terrace	4'	200
302	9.5	Gravel and sand	terrace	10'	1,500
301	11.0	Sand and gravel	terrace	10'	4,000
300A	14.0	Silt w/some gravel	terrace	?	?
326	18.0	Sand w/some gravel	delta	15' to 20'	20,000
324A	23.0	Gravel and sand	delta	40'	10,000
323A	26.0	Gravel and sand	delta	40'	15,000

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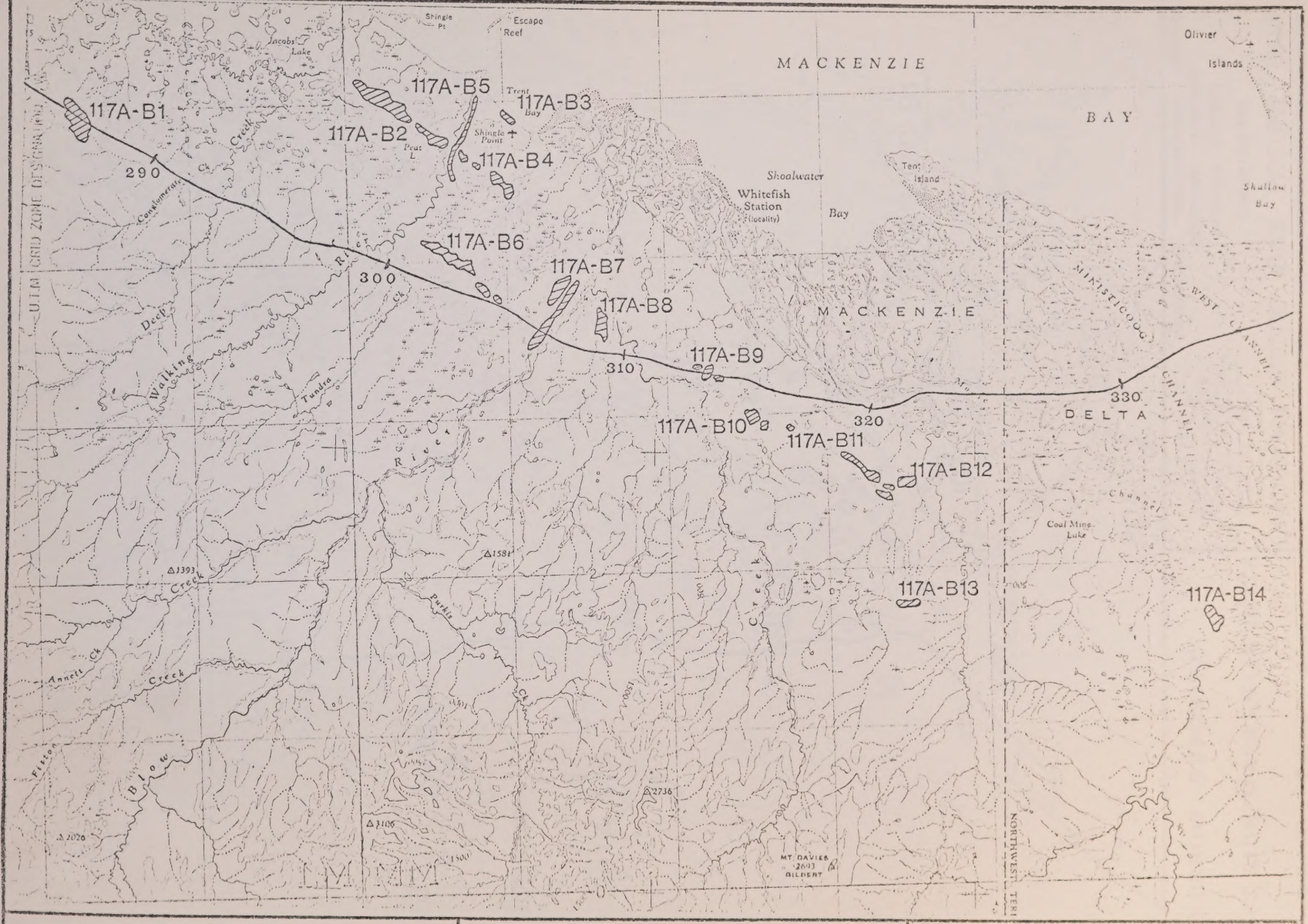
... 2/ (Cont'd)

BORROW DEPOSIT	DISTANCE FROM TUNUNUK JUNCTION (Miles)	MATERIAL	LANDFORM	ESTIMATED REC. DEPTH	ESTIMATED AVAILABLE VOL. 10^3cu.yd.
322	26.0	Sand w/some gravel and some silt	terraces	10'	1,000
317	28.0	Sand w/some gravel	Kames & outwash	5' to 10'	500
316	30.0	Sand w/some gravel	Glaciofluvial outwash	5' to 30'	1,000
318	25.0	Sand and gravel	Outwash & alluvial fan	10'	2,000
319	22.0	Sand and gravel	Kames	10'	500 to 1,500
320	20.0	Sand w/some gravel	Kames	15'	500 to 1,500
321	25.0	Sand w/some gravel	Outwash	5' to 10'	1,000
315	29.0	Sand and gravel	Glaciofluvial outwash	15'	6,000
309	35.0	Gravel and sand	Kame field	10' to 25'	2,000
312	39.0	Gravel and sand	terraces	5' to 15'	6,000
311	43.0	Sand	lake shore bank	5'	400
327	40.0	Gravel w/some sand	outwash	5' to 10'	1,000
325	44.0	Gravel w/some sand	terrace	5' to 10'	500 to 1,000
314	45.0	Sand w/some gravel	terraces	15'	3,000



BORROW DEPOSITS
WEST SIDE, MACKENZIE DELTA

Figure 1.

Miles 5 0 5 10
Kilometres 5 0 5 10 15

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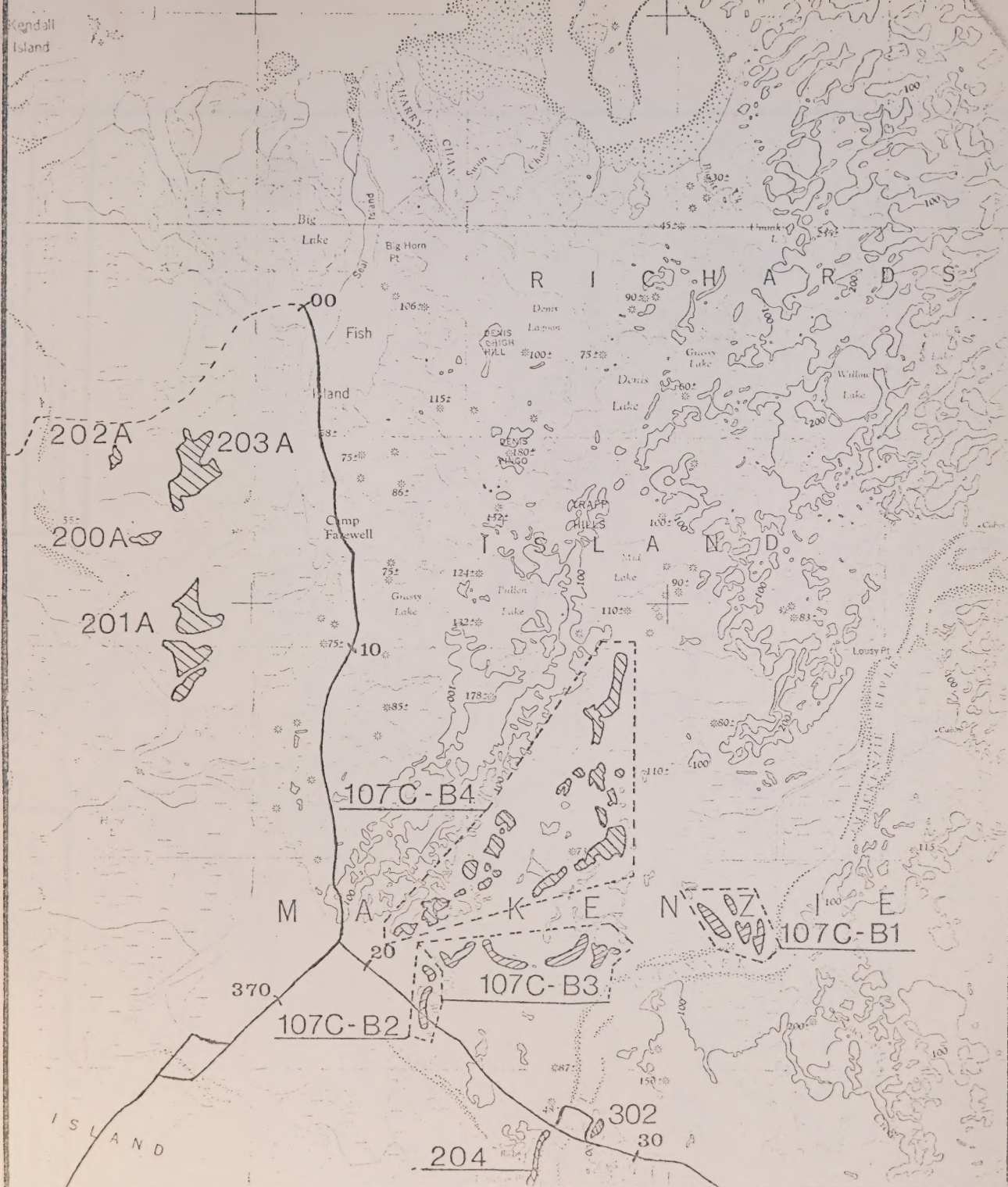
ENGINEERS FOR
CANADIAN ARCTIC GAS STUDY LIMITED



BORROW DEPOSITS:

EAST SIDE, MACKENZIE DELTA

(Mackenzie Delta Sheet)

Figure 2.

NORTHERN ENGINEERING SERVICES COMPANY LIMITED
CALGARY ALBERTA

ENGINEERS FOR

CANADIAN ARCTIC GAS PIPELINE LIMITED

Miles 5 0 5

Kilometres 5 0 5 10 15

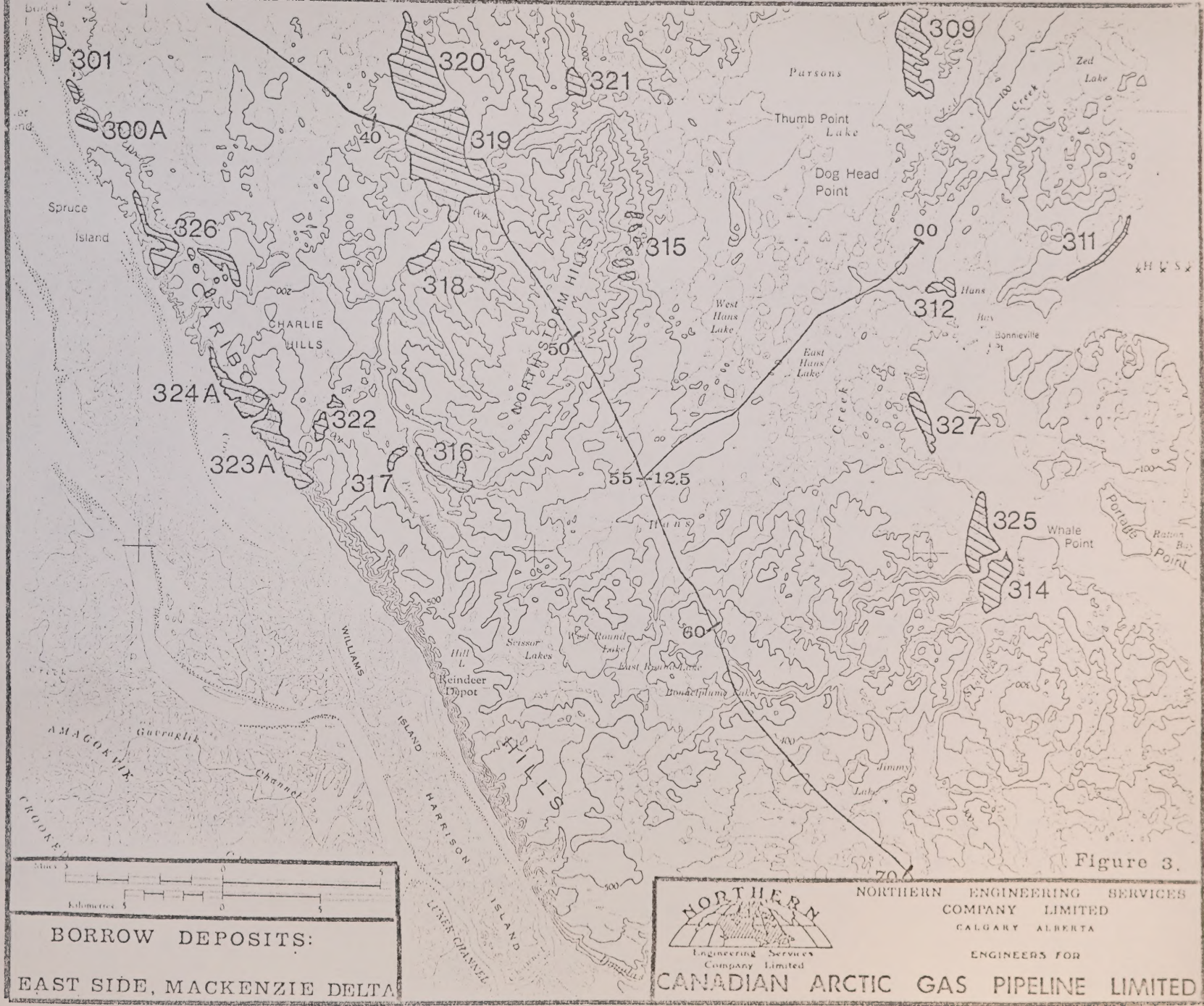


Figure 3.

BORROW DEPOSITS:

EAST SIDE, MACKENZIE DELTA

NORTHERN ENGINEERING SERVICES COMPANY LIMITED
CALGARY ALBERTA

Northern Engineering Services Company Limited

ENGINEERS FOR

CANADIAN ARCTIC GAS PIPELINE LIMITED